

### **Exhibit 3**

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr.	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downhill	EIRP Total	AGL
Albany	ALB	002A	042-39-06	073-45-36	Tx1	TA-2350-DAB	0	0	1262	324
Albany	ALB	003A	042-39-39.6	073-49-19.6	Tx1	TA-2350-DAB	0	0	1386	153
Albany	ALB	008A	042-48-51	073-55-59	Tx1	TA-2350-T6	0	0	1342	132
Albany	ALB	010A	043-05-56	073-47-14	Tx1	TA-2350-T6	0	0	1112	133

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City	City Abbr.	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	Channel
Atlanta	ATL	003C	033-51-58	084-28-28	Tx1	TA-2350-T6	0	0	1226	235
Atlanta	ATL	004C	033-51-07	084-22-41	Tx1	TA-2304-2-DAB(120)	60	0	879	208
Atlanta	ATL	004C	033-51-07	084-22-41	Tx2	TA-2304-2-DAB(120)	300	0	879	213
Atlanta	ATL	005B	033-45-12	084-29-55	Tx1	TA-2350-DAB	0	0	1026	158
Atlanta	ATL	006B	033-40-28	084-26-22	Tx1	TA-2350-DAB	0	0	1205	111
Atlanta	ATL	007A	033-37-21	084-29-11	Tx1	TA-2350-T6	0	0	1032	137
Atlanta	ATL	009A	033-55-16	084-20-06	Tx1	TA-2335-DAB-H	90	4	1407	438
Atlanta	ATL	009A	033-55-16	084-20-06	Tx2	TA-2335-DAB-H	300	4	1287	438
Atlanta	ATL	011G	033-58-36	084-32-43	Tx1	TA-2304-2-DAB(160)	0	0	1732	170
Atlanta	ATL	012B	033-55-43	084-32-59	Tx1	TA-2350-T6	0	6	1076	140
Atlanta	ATL	013A	033-55-51.9	084-14-39.9	Tx1	TA-2350-T6	0	0	633	283
Atlanta	ATL	016C	033-45-52	084-15-05	Tx1	TA-2350-DAB	0	0	1099	140
Atlanta	ATL	023B	034-00-56.7	084-19-47.4	Tx1	TA-2350-T6	0	0	1082	120
Atlanta	ATL	024A	033-54-07	084-28-17	Tx1	TA-2350-T6	0	0	1556	192
Atlanta	ATL	026B	033-55-24.6	084-08-14.4	Tx1	TA-2350-DAB	0	0	1048	160

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Atlanta	ATL	028C	033-43-03	084-15-19	Tx1	TA-2350-DAB	0	0	936	160
Atlanta	ATL	029D	033-52-17.5	084-11-15.5	Tx1	TA-2350-DAB	0	0	1134	124
Atlanta	ATL	030B	033-56-22	084-30-21	Tx1	TA-2350-T6	0	0	1437	158
Atlanta	ATL	032A	033-41-13	084-30-48	Tx1	TA-2350-DAB	0	0	576	324
Atlanta	ATL	042D	033-42-20.5	084-27-19.5	Tx1	TA-2350-DAB	0	0	1099	135
Atlanta	ATL	047D	033-49-06.0	084-14-39.0	Tx1	TA-2350-T6	0	0	738	250
Atlanta	ATL	049C	033-41-10.68	084-18-33.5	Tx1	TA-2350-DAB	0	0	1152	125
Atlanta	ATL	050A	033-44-15	084-18-37	Tx1	TA-2350-T6	0	0	1039	125
Atlanta	ATL	052B	033-53-02	084-15-53	Tx1	TA-2350-T6	0	0	734	250
Atlanta	ATL	054A	033-39-43	084-22-28	Tx1	TA-2350-DAB	0	0	770	225
Atlanta	ATL	056A	033-42-09	084-19-48	Tx1	TA-2350-T6	0	0	753	240
Atlanta	ATL	061E	033-58-09.1	084-20-51.4	Tx1	TA-2350-DAB	0	0	910	186
Atlanta	ATL	063A	033-57-53	084-11-09	Tx1	TA-2350-T6	0	0	841	220
Atlanta	ATL	064C	033-52-16.0	084-31-27.6	Tx1	TA-2350-T6	0	6	896	120
Atlanta	ATL	065A	033-44-10	084-14-02	Tx1	TA-2350-T6	0	0	854	150

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Atlanta	ATL	066A	033-53-56	084-07-53	Tx1	TA-2350-DAB	0	0	1065	135
Atlanta	ATL	068A	033-55-24	084-22-51	Tx1	TA-2350-T6	0	0	969	155
Atlanta	ATL	076A	034-03-26	084-18-18	Tx1	TA-2350-T6	0	0	403	420
Atlanta	ATL	093C	033-24-00	084-34-49	Tx1	TA-2350-DAB	0	0	1418	250
Atlanta	ATL	094A	033-20-27	084-31-55	Tx1	TA-2350-DAB	0	0	1016	180
Atlanta	ATL	095A	033-50-28.0	084-25-35.0	Tx1	TA-2304-2-DAB(120)	315	0	1833	103
Atlanta	ATL	525A	033-54-56	084-24-15	Tx1	TA-2350-T6	0	0	1049	131

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	Page
Birmingham	BIR	006A	033-33-35	086-42-06	Tx1	TA-2350-T6	0	6	734	202
Birmingham	BIR	009A	033-31-04	086-48-30	Tx1	TA-2350-T6	0	0	1501	501
Birmingham	BIR	010A	033-30-13.7	086-43-04.3	Tx1	TA-2350-T6	0	0	1032	157

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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	WGL
Boston	BOS	103B	042-21-48.4	071-03-55.8	Tx1	TA-2350-T6	0	0	1281	485
Boston	BOS	109B	042-22-38	071-16-08	Tx1	TA-2335-DAB-H	0	0	1895	250
Boston	BOS	109B	042-22-38	071-16-08	Tx2	TA-2335-DAB-H	240	0	1895	250
Boston	BOS	110F	042-12-16	071-07-48	Tx1	TA-2350-DAB	0	0	1184	65
Boston	BOS	111D	042-18-13	071-13-05	Tx1	TA-2335-DAB-H	0	0	1111	285
Boston	BOS	111D	042-18-13	071-13-05	Tx2	TA-2335-DAB-H	120	0	1111	285
Boston	BOS	111D	042-18-13	071-13-05	Tx3	TA-2335-DAB-H	240	0	1111	285
Boston	BOS	112B	042-29-59	071-06-09	Tx1	TA-2350-DAB	0	0	1111	80
Boston	BOS	115A	042-34-29.9	070-52-02.6	Tx1	TA-2350-DAB	0	0	863	170
Boston	BOS	116A	042-34-23.1	070-54-24.7	Tx1	TA-2350-DAB	0	0	1222	61
Boston	BOS	118D	042-28-02	070-56-40	Tx1	TA-2304-DAB(120)	45	0	1326	190
Boston	BOS	120C	042-24-59	071-09-07	Tx1	TA-2350-DAB	0	0	1386	110
Boston	BOS	121A	042-25-52	071-05-19	Tx1	TA-2304-2-DAB(160)	0	0	1257	260
Boston	BOS	122A	042-29-21.2	071-06-59.1	Tx1	TA-2350-DAB	0	0	1184	89
Boston	BOS	123B	042-19-30.3	071-11-25.7	Tx1	TA-2350-DAB	0	0	1077	68

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downhill	EIRP Total	Tag
Boston	BOS	126B	042-20-22	071-09-19	Tx1	TA-2304-2-DAB(120)	180	0	1612	178
Boston	BOS	126B	042-20-22	071-09-19	Tx2	TA-2304-2-DAB(120)	300	0	1612	178
Boston	BOS	128A	042-30-34	070-54-55	Tx1	TA-2350-DAB	0	0	1301	103
Boston	BOS	129A	042-32-58.4	070-53-03.2	Tx1	TA-2350-DAB	0	0	1011	94
Boston	BOS	132A	042-27-06	071-08-09	Tx1	TA-2350-DAB	0	0	1199	94
Boston	BOS	136A	042-30-34.4	070-51-25.5	Tx1	TA-2304-2-DAB(120)	270	0	600	145
Boston	BOS	137A	042-10-53.2	071-04-07.5	Tx1	TA-2350-DAB	0	0	1191	256
Boston	BOS	140B	042-14-49	071-02-56	Tx1	TA-2335-DAB-H	120	0	1295	540
Boston	BOS	140B	042-14-49	071-02-56	Tx2	TA-2335-DAB-H	240	0	1295	540
Boston	BOS	202C	42-29-00	071-11-50	Tx1	TA-2350-DAB	0	0	1351	103
Boston	BOS	203A	042-31-57	070-59-09	Tx1	TA-2335-DAB-H	0	0	1879	200
Boston	BOS	203A	042-31-57	070-59-09	Tx2	TA-2335-DAB-H	120	0	1879	200
Boston	BOS	226A	042-15-43.1	071-48-16.5	Tx1	TA-2350-DAB	0	0	1291	280
Boston	BOS	638A	042-14-40	071-07-51	Tx1	TA-2335-DAB-H	0	0	920	120
Boston	BOS	638A	042-14-40	071-07-51	Tx2	TA-2335-DAB-H	120	0	920	120



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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Down tilt	EIRP Total	AGL
Boston	BOS	638A	042-14-40	071-07-51	Tx3	TA-2335-DAB-H	240		920	120

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City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGU
Charlotte	CHA	003A	034-56-43	081-02-25	Tx1	TA-2350-T6	0	0	1378	207
Charlotte	CHA	013C	035-13-26	080-50-42	Tx1	TA-2350-DAB	0	0	1256	600
Charlotte	CHA	020B	35-10-2.6	80-50-57.8	Tx1	TA-2350-T6	0	0	1518	135

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City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Chicago	CHI	101A	041-52-44	087-38-10	Tx1	TA-2304-2-DAB(60)	180	9	2000	1465
Chicago	CHI	101A	041-52-44	087-38-10	Tx2	TA-2304-2-DAB(60)	210	5	2000	1465
Chicago	CHI	101A	041-52-44	087-38-10	Tx3	TA-2304-2-DAB(60)	270	9	1937	1465
Chicago	CHI	101A	041-52-44	087-38-10	Tx4	TA-2304-2-DAB(60)	330	5	1937	1465
Chicago	CHI	102G	041-52-31	087-38-01	Tx1	TA-2350-DAB	0	0	1564	152
Chicago	CHI	124A	041-43-16	087-44-25	Tx1	TA-2304-2-DAB(120)	120	0	1940	214
Chicago	CHI	124A	041-43-16	087-44-25	Tx2	TA-2304-2-DAB(120)	240	0	1940	214
Chicago	CHI	125A	041-41-22	087-47-42	Tx1	TA-2350-DAB	0	0	930	200
Chicago	CHI	132B	041-57-51.2	087-45-33.6	Tx1	TA-2350-T6	0	0	1692	76
Chicago	CHI	141H	041-51-02	087-51-18	Tx1	TA-2335-DAB-H	210	0	1470	190
Chicago	CHI	141H	041-51-02	087-51-18	Tx2	TA-2335-DAB-H	330	0	1470	190
Chicago	CHI	210B	041-36-54	087-31-21	Tx1	TA-2335-DAB-H	110	0	1640	132
Chicago	CHI	210B	041-36-54	087-31-21	Tx2	TA-2335-DAB-H	230	0	1640	132
Chicago	CHI	251E	042-02-25.7	087-54-10	Tx1	TA-2350-T6	0	0	1444	144

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtail	EIRP Total	ACI
Cincinnati	CIN	026B	039-13-16	084-23-01	Tx1	TA-2350-DAB	0	0	1068	130
Cincinnati	CIN	034A	039-02-37	084-28-53	Tx1	TA-2350-T6	0	0	1100	260
Cincinnati	CIN	042E	039-09-20.6	084-36-46.3	Tx1	TA-2350-T6	0	0	1100	155
Cincinnati	CIN	044A	039-05-30.0	084-23-16.5	Tx1	TA-2335-DAB-H	20	4	1440	167
Cincinnati	CIN	044A	039-05-30.0	084-23-16.5	Tx2	TA-2335-DAB-H	120	4	1440	167

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City	City Abb.	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Cleveland	CLE	002A	041-00-46	081-41-52.0	Tx1	TA-2335-DAB-H	90	0	1924	620
Cleveland	CLE	002A	041-00-46	081-41-52.0	Tx2	TA-2335-DAB-H	200	0	1924	620

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtime	EIRP Total	AGL
Columbus	COL	008J	039-57-53.9	083-00-20.4	Tx1 -	TA-2350-DAB	0	0	1140	325
Columbus	COL	019D	040-03-45.0	082-53-45.0	Tx2	TA-2304-2-DAB(90)	340	6	1320	240
Columbus	COL	020F	040-06-20	083-00-3	Tx1	TA-2304-2-DAB(90)	60	4	1180	165

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Dallas/Fort Worth	DFW	001A	032-46-51	096-48-07	Tx1	TA-2350-DAB	0	2	1014	850
Dallas/Fort Worth	DFW	008A	032-55-48	096-37-37	Tx1	TA-2335-DAB-H	70	0	1048	140

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	WGL
Dayton	DAY	013A	039-55-28.0	083-48-33.4	Tx1	TA-2350-T6	0	0	1334	130
Dayton	DAY	014C	039-49-03	084-14-53	Tx1	TA-2304-2-DAB(120)	0	0	1780	282
Dayton	DAY	017A	039-38-43	084-09-32	Tx1	TA-2350-DAB	0	0	776	175



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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Denver	DEN	001B	039-44-37	104-59-18	Tx1	TA-2350-DAB	0	0	1100	735
Denver	DEN	003A	039-44-47.2	104-59-37.2	Tx1	TA-2350-DAB	0	0	470	158
Denver	DEN	006A	039-39-16.2	104-54-58.8	Tx1	TA-2335-DAB-H	60	0	1472	150
Denver	DEN	006A	039-39-16.2	104-54-58.8	Tx2	TA-2335-DAB-H	180	0	1472	150

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City	City/Abbr.	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGI
Detroit	DET	038A	042-11-31	083-09-58	Tx1	TA-2335-DAB-H	270	6	744	180

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City	City Abbr.	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downhill	EIRP Total	PAOL
Greensboro	GRE	009A	036-05-24	080-15-05	Tx2	TA-2304-DAB(120)	135	6	1901	330
Greensboro	GRE	019C	036-04-41.4	079-54-40.4	Tx1	TA-2304-DAB(120)	45	0	1664	150

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Greenville	GRV	005B	034-51-17	082-23-51	Tx2	TA-2335-DAB-H	120	0	1430	358
Greenville	GRV	005B	034-51-17	082-23-51	Tx3	TA-2335-DAB-H	240	0	772	358
Greenville	GRV	014B	034-47-52	082-25-31	Tx1	TA-2350-DAB	0	0	932	163
Greenville	GRV	015A	034-50-25	082-28-13	Tx1	TA-2350-DAB	0	0	1344	235
Greenville	GRV	023A	034-54-3.5	082-18-50	Tx1	TA-2350-DAB	0	0	946	175
Greenville	GRV	025A	034-49-38	082-17-38	Tx1	TA-2350-DAB	0	0	1300	240
Greenville	GRV	027B	034-47-13	080-18-29	Tx1	TA-2350-DAB	0	0	922	156
Greenville	GRV	029B	034-46-29	082-23-06	Tx1	TA-2350-DAB	0	0	1074	125
Greenville	GRV	030D	034-52-20	082-21-29	Tx1	TA-2350-DAB	0	0	1008	147
Greenville	GRV	032D	034-48-19	082-22-54	Tx1	TA-2350-DAB	0	0	1108	123
Greenville	GRV	106A	034-57-32	081-58-42	Tx1	TA-2350-DAB	0	0	932	163
Greenville	GRV	112D	034-57-06	081-55-08	Tx1	TA-2350-DAB	0	0	946	220
Greenville	GRV	118B	034-55-49	081-53-22	Tx1	TA-2350-DAB	0	0	1418	190

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Harrisburg	HAB	003C	039-57-45.8	076-43-34.1	Tx1	TA-2350-T6	0	0	1258	129
Harrisburg	HAB	006E	040-15-36.0	076-52-45.0	Tx1	TA-2350-T6	0	0	1340	345
Harrisburg	HAB	008A	040-14-38.7	076-48-14.6	Tx1	TA-2350-T6	0	0	1340	118
Harrisburg	HAB	011A	040-20-26.0	076-25-44.0	Tx1	TA-2350-DAB	0	0	1340	155
Harrisburg	HAB	014A	040-02-27.7	076-18-34.2	Tx1	TA-2335-DAB-H	60	2	1300	223
Harrisburg	HAB	014A	040-02-27.7	076-18-34.2	Tx2	TA-2335-DAB-H	180	2	1300	223
Harrisburg	HAB	014A	040-02-27.7	076-18-34.2	Tx3	TA-2335-DAB-H	300	6	1300	223

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	ASL
Hartford	HAR	006D	041-10-36	073-12-15	Tx1	TA-2350-DAB	0	0	1352	147
Hartford	HAR	014A	041-18-25.0	072-55-29	Tx1	TA-2350-DAB	0	0	980	393
Hartford	HAR	015B	041-32-08	072-48-05	Tx1	TA-2350-DAB	0	0	1462	149
Hartford	HAR	016B	041-33-43	073-02-43	Tx1	TA-2350-T6	0	0	1364	143
Hartford	HAR	017A	041-03-09	073-33-46	Tx1	TA-2350-DAB	0	0	1186	260
Hartford	HAR	032A	041-07-42	073-23-26	Tx1	TA-2335-DAB-H	0	15	944	350
Hartford	HAR	032A	041-07-42	073-23-26	Tx2	TA-2335-DAB-H	120	15	944	350
Hartford	HAR	032A	041-07-42	073-23-26	Tx3	TA-2335-DAB-H	240	15	944	350
Hartford	HAR	040A	041-13-43	073-04-14	Tx1	TA-2335-DAB-H	105	2	1762	90

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City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Houston	HOU	001A	029-45-30	095-22-03	Tx1	TA-2350-DAB	0	0	1034	1030
Houston	HOU	003C	029-44-56.4	095-22-19.4	Tx1	TA-2350-DAB	0	0	1272	300
Houston	HOU	011C	029-56-03.8	095-17-57.2	Tx1	TA-2304-2-DAB(160)	0	0	1924	170
Houston	HOU	519A	029-17-52.4	094-48-07.9	Tx1	TA-2350-DAB	0	0	892	190

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Jacksonville	JAC	001C	030-19-40.0	081-39-44.0	Tx1	TA-2350-DAB	0	0	974	462
Jacksonville	JAC	011A	030-18-17	081-23-46	Tx1	TA-2335-DAB-H	20	0	1798	212
Jacksonville	JAC	011A	030-18-17	081-23-46	Tx2	TA-2335-DAB-H	140	0	1798	202
Jacksonville	JAC	012A	030-24-55	081-41-50	Tx1	TA-2350-DAB-T6	0	0	1080	118



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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	ACT
Kansas City	KAC	006B	039-00-58	094-41-24	Tx1	TA-2350-T6	0	0	1381	210

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtime	EIRP Total	AGL
Knoxville	KNO	001A	036-00-12	083-56-59	Tx1	TA-2350-T6	0	0	1108	435
Knoxville	KNO	002A	035-57-44	083-54-57	Tx1	TA-2350-DAB	0	0	1650	330
Knoxville	KNO	006A	035-56-20	083-59-12	Tx1	TA-2350-DAB	0	0	968	170
Knoxville	KNO	008C	036-00-49	083-51-13	Tx1	TA-2350-DAB	0	0	923	165
Knoxville	KNO	009D	035-55-27	083-53-57	Tx1	TA-2350-T6	0	0	1463	197
Knoxville	KNO	011A	036-00-52.8	084-01-15.3	Tx1	TA-2350-DAB	0	0	908	155
Knoxville	KNO	012A	035-58-0	084-02-48	Tx1	TA-2350-T6	0	0	966	180
Knoxville	KNO	013E	036-02-03	083-53-54	Tx1	TA-2350-DAB	0	0	923	173
Knoxville	KNO	014A	035-54-9	084-01-0	Tx1	TA-2350-T6	0	0	894	180
Knoxville	KNO	017D	035-59-29	083-59-34	Tx1	TA-2350-DAB	0	0	1098	115

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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr.	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	CA
Las Vegas	LVX	001A	036-10-15.0	115-08-32	Tx1	TA-2350-DAB	0	0	1318	578
Las Vegas	LVX	002A	036-08-02.0	115-09-53.0	Tx1	TA-2350-DAB	0	0	1386	458

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	WAGL
Los Angeles	LAX	001B	034-03-17.9	118-15-18.0	Tx1	TA-2350-T6	0	0	1264	163
Los Angeles	LAX	009A	034-09-49.8	118-03-05.9	Tx1	TA-2350-DAB	0	0	1264	43
Los Angeles	LAX	016A	034-14-25.0	118-15-53.0	Tx1	TA-2350-DAB	0	0	1264	43
Los Angeles	LAX	017B	034-08-34.2	118-15-00.1	Tx1	TA-2350-DAB	0	0	1264	108
Los Angeles	LAX	030A	034-04-27	118-28-05	Tx1	TA-2350-T6	0	0	1264	179
Los Angeles	LAX	031A	034-15-51.0	118-38-44.0	Tx1	TA-2350-DAB	0	0	1264	20
Los Angeles	LAX	033A	034-09-23.2	118-47-49.2	Tx1	TA-2350-DAB	0	0	1264	41
Los Angeles	LAX	114A	033-53-48.4	117-31-56.8	Tx1	TA-2335-DAB-H	90	2	2000	25
Los Angeles	LAX	114A	033-53-48.4	117-31-56.8	Tx2	TA-2335-DAB-H	210	2	2000	25
Los Angeles	LAX	118C	033-52-09.0	117-56-18.0	Tx1	TA-2350-T6	0	0	1416	56
Los Angeles	LAX	119B	033-58-33.0	118-02-05.0	Tx1	TA-2350-T6	0	0	1264	107
Los Angeles	LAX	129A	033-51-58.9	117-46-11.5	Tx1	TA-2350-DAB	0	0	1314	47
Los Angeles	LAX	130A	033-45-57	118-10-57	Tx1	TA-2350-T6	0	0	1328	255
Los Angeles	LAX	143A	033-30-20.2	117-41-32.6	Tx1	TA-2335-DAB-H	20	8	1002	39
Los Angeles	LAX	143A	033-30-20.2	117-41-32.6	Tx2	TA-2335-DAB-H	140	0	1002	39

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Los Angeles	LAX	143A	033-30-20.2	117-41-32.6	Tx3	TA-2335-DAB-H	260	0	1002	39

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Louisville	LOU	001A	038-256667N	085-75-8056W	Tx1	TA-2350-T6	0	0	920	477
Louisville	LOU	005A	038-14-08.4	085-42-33.7	Tx1	TA-2304-2-DAB(90)	65	2	1910	240
Louisville	LOU	009B	038-13-12.3	085-46-30	Tx1	TA-2304-2-DAB(120)	190	0	1000	180
Louisville	LOU	010B	038-18-32	085-49-07	Tx1	TA-2304-DAB(90)	350	0	1400	186
Louisville	LOU	014A	038-02-50	084-29-54	Tx1	TA-2350-DAB	0	0	1232	267
Louisville	LOU	512A	038-09-54.7	085-35-49.9	Tx1	TA-2304-2-DAB(90)	65	0	2000	200

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Memphis	MEM	001B	035-08-36	090-03-10	Tx1	TA-2350-T6	0	0	1231	448
Memphis	MEM	003A	035-04-07	090-00-05	Tx1	TA-2350-DAB	0	0	1008	120
Memphis	MEM	006B	035-12-11	089-50-19	Tx1	TA-2350-T6	0	0	1024	127
Memphis	MEM	007A	035-09-28	089-44-59	Tx1	TA-2350-DAB	0	0	934	140
Memphis	MEM	008A	035-10-27	089-56-47	Tx1	TA-2350-T6	0	0	886	180

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Miami	MIA	021A	26-06-22.6	80-17-15.8	Tx1	TA-2335-DAB-H	0	0	1238	175
Miami	MIA	021A	26-06-22.6	80-17-15.8	Tx2	TA-2335-DAB-H	270	0	1238	175



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## Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downhill	EIRP Total	AGL
Milwaukee	MIL	001B	043-02-18	087-54-07	Tx1	TA-2350-DAB	0	0	1794	620

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtime	EIRP Total	AGI
Minneapolis	MIN	001C	044-58-50.8	093-16-25.6	Tx1	TA-2350-T6	0	0	1588	168
Minneapolis	MIN	002A	044-58-32	093-16-18	Tx1	TA-2350-T6	0	0	1588	787
Minneapolis	MIN	012A	044-56-90.6	093-05-68.8	Tx1	TA-2304-2-DAB(120)	50	3	762	489
Minneapolis	MIN	012A	044-56-90.6	093-05-68.8	Tx2	TA-2304-2-DAB(120)	170	3	762	489
Minneapolis	MIN	012A	044-56-90.6	093-05-68.8	Tx3	TA-2304-2-DAB(120)	290	10	762	489
Minneapolis	MIN	030A	045-04-35	093-05-02	Tx1	TA-2304-2-DAB(160)	0	0	1914	185

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Monterey	MON	006B	036-35-10	121-55-19	Tx1	TA-2350-T6	0	0	1257	50
Monterey	MON	007B	036-54-39.2	121-45-22.5	Tx1	TA-2335-DAB-H	40	4	1360	60
Monterey	MON	007B	036-54-39.2	121-45-22.5	Tx2	TA-2335-DAB-H	160	4	1382	60
Monterey	MON	007B	036-54-39.2	121-45-22.5	Tx3	TA-2335-DAB-H	280	4	1339	60
Monterey	MON	008C	036-39-53	121-38-20	Tx1	TA-2350-T6	0	0	946	140
Monterey	MON	010D	036-36-1.6	121-53-42.5	Tx1	TA-2350-T6	0	0	1257	160
Monterey	MON	011A	036-37-16	121-55-0.1	Tx1	TA-2350-T6	0	0	1218	60

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	MAGL
Nashville	NAS	002B	036-09-43.8	086-46-42.6	Tx1	TA-2350-DAB	0	0	1083	372
Nashville	NAS	015A	036-13-20.6	086-41-47.9	Tx1	TA-2350-DAB	0	0	1048	145
Nashville	NAS	017B	036-06-47.1	086-47-57.9	Tx1	TA-2350-DAB	0	0	1594	100
Nashville	NAS	019A	036-06-06	086-52-17	Tx1	TA-2350-DAB	0	0	1064	120
Nashville	NAS	025C	036-12-43.6	086-17-35.4	Tx1	TA-2350-DAB	0	0	1083	127
Nashville	NAS	026B	035-50-13.8	086-23-54.5	Tx1	TA-2304-2-DAB(160)	60	0	1782	200
Nashville	NAS	033C	036-22-54.4	086-26-57.1	Tx1	TA-2350-DAB	0	0	1104	129

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
New Orleans	NOX	002A	030-00-21.6	090-13-09.2	Tx1	TA-2350-DAB	0	0	1082	130
New Orleans	NOX	006A	029-59-23.4	090-04-7	Tx1	TA-2350-DAB	0	0	1368	200
New Orleans	NOX	011C	029-57-06.1	090-04-13.2	Tx1	TA-2304-2-DAB(90)	10	9	1132	700
New Orleans	NOX	011C	029-57-06.1	090-04-13.2	Tx2	TA-2304-2-DAB(90)	130	0	1132	700
New Orleans	NOX	011C	029-57-06.1	090-04-13.2	Tx3	TA-2304-2-DAB(90)	250	0	1132	700

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Repeaters Operating At or Less Than 2 kw EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	SQL
New York	NYC	001D	040-42-28	074-00-21	Tx1	TA-2350-T6	0	0	1262	314
New York	NYC	002A	040-44-20	073-59-07	Tx1	TA-2350-T6	0	0	1262	201
New York	NYC	003A	040-45-21	073-59-26	Tx1	TA-2304-2-DAB(120)	0		1002	265
New York	NYC	003A	040-45-21	073-59-26	Tx2	TA-2304-2-DAB(120)	120		1002	265
New York	NYC	003A	040-45-21	073-59-26	Tx3	TA-2304-2-DAB(120)	240		1002	265
New York	NYC	005A	040-57-39	073-55-23	Tx1	TA-2350-T6	0	0	1262	240
New York	NYC	006B	040-43-52	074-03-48	Tx1	TA-2350-T6	0	0	1262	189
New York	NYC	008B	040-39-56	073-42-20	Tx1	TA-2350-DAB	0	0	1384	88
New York	NYC	009A	040-45-42	073-49-04	Tx1	TA-2350-DAB	0	0	1262	195
New York	NYC	012B	040-46-33.0	074-02-03.0	Tx1	TA-2350-DAB	0	0	818	112
New York	NYC	013C	040-52-58	073-54-40	Tx1	TA-2350-DAB	0	0	1262	203
New York	NYC	014A	040-53-31	073-51-10	Tx1	TA-2350-T6	0	0	1262	159
New York	NYC	015A	040-56-45	073-53-10	Tx1	TA-2350-DAB	0	0	1262	156
New York	NYC	016A	040-43-40	073-51-07	Tx1	TA-2350-DAB	0	0	1262	297
New York	NYC	019F	040-56-05	074-07-05	Tx1	TA-2335-DAB-H	30	6	1262	100

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Repeaters Operating At or Less Than 2 kW EIRP

City	CityAbbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
New York	NYC	019F	040-56-05	074-07-05	Tx2	TA-2335-DAB-H	150	0	1262	100
New York	NYC	019F	040-56-05	074-07-05	Tx3	TA-2335-DAB-H	270	0	1262	100
New York	NYC	026A	040-40-04.8	073-57-36.8	Tx1	TA-2350-T6	0	0	1262	429
New York	NYC	031D	040-44-16.5	074-10-03.3	Tx1	TA-2335-DAB-H	0	0	1890	425
New York	NYC	031D	040-44-16.5	074-10-03.3	Tx2	TA-2335-DAB-H	120	0	1890	425
New York	NYC	034C	040-47-15	074-15-18	Tx1	TA-2350-T6	0	0	316	203
New York	NYC	035A	040-51-19	073-55-38	Tx1	TA-2350-T6	0	0	1262	200
New York	NYC	036A	040-52-18.4	074-11-45.2	Tx1	TA-2350-DAB	0	0	1262	181
New York	NYC	038B	040-53-16.8	074-03-14.5	Tx1	TA-2350-T6	0	0	1262	285
New York	NYC	042D	040-36-44	073-58-08.6	Tx1	TA-2350-DAB	0	0	1262	83
New York	NYC	048D	040-43-02	074-00-27	Tx1	TA-2350-T6	0	0	1262	294
New York	NYC	051A	040-44-49	073-58-38	Tx1	TA-2350-T6	0	0	1262	261
New York	NYC	052C	040-45-54	073-59-02	Tx1	TA-2350-T6	0	0	1264	264
New York	NYC	053E	040-43-32.4	073-59-18.1	Tx1	TA-2350-T6	0	0	1262	180
New York	NYC	054F	040-45-35.7	073-58-33.9	Tx1	TA-2350-T6	0	0	1262	490

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Repeaters Operating At or Less Than 2 kw EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
New York	NYC	055A	040-48-11	073-56-33	Tx1	TA-2350-T6	0	0	1262	143
New York	NYC	056D	040-46-23	073-57-29	Tx1	TA-2350-T6	0	0	1262	280
New York	NYC	058D	040-44-59	073-59-43	Tx1	TA-2350-T6	0	0	1524	248
New York	NYC	059F	040-46-53	073-57-11	Tx1	TA-2350-T6	0	0	1262	181
New York	NYC	062A	040-43-01.1	073-59-47.5	Tx1	TA-2350-DAB	0	0	1262	98
New York	NYC	068A	040-49-53	074-07-23	Tx1	TA-2350-DAB	0	0	1262	77
New York	NYC	070H	040-58-04	073-42-56	Tx1	TA-2350-DAB	0	0	1262	88
New York	NYC	074B	040-42-44.2	073-56-27.7	Tx1	TA-2350-DAB	0	0	1262	155
New York	NYC	097I	040-38-32	073-55-29.5	Tx1	TA-2350-DAB	0	0	1568	93
New York	NYC	098A	040-54-43.6	073-46-57.2	Tx1	TA-2350-DAB	0	0	1262	195
New York	NYC	100A	040-57-41	074-04-23	Tx1	TA-2350-DAB	0	0	1262	183
New York	NYC	103B	040-40-03.1	074-12-51.7	Tx1	TA-2350-T6	0	0	1262	159
New York	NYC	104C	040-37-36	074-26-22.7	Tx1	TA-2350-T6	0	0	1262	127
New York	NYC	106B	040-40-16.5	073-53-49.3	Tx1	TA-2350-DAB	0	0	1262	93
New York	NYC	112F	040-45-22.3	073-54-50.5	Tx1	TA-2350-DAB	0	0	1416	80



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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
New York	NYC	128C	040-41-11.8	074-18-13.5	Tx1	TA-2350-DAB	0	0	1262	110
New York	NYC	134C	040-59-39	073-40-39.2	Tx1	TA-2350-DAB	0	0	1568	163
New York	NYC	136C	40-55-5.8	73-54-4.8	Tx1	TA-2350-DAB	0	0	1330	105
New York	NYC	138A	040-50-47	073-50-7.4	Tx1	TA-2350-DAB	0	0	1520	200
New York	NYC	139A	40-55-27	73-51-59.5	Tx1	TA-2350-DAB	0	0	1520	91
New York	NYC	141A	40-39-7	74-00-22	Tx1	TA-2304-2-DAB(120)	30	0	1502	153
New York	NYC	141A	40-39-7	74-00-22	Tx2	TA-2304-2-DAB(120)	150	0	1502	153
New York	NYC	142A	040-36-30	074-00-20	Tx1	TA-2350-DAB	0	0	1632	79
New York	NYC	143B	040-36-6.5	073-56-34	Tx1	TA-2350-DAB	0	0	1630	109
New York	NYC	144E	40-42-46	73-52-55.5	Tx1	TA-2350-DAB	0	0	1592	87
New York	NYC	145D	040-42-44.2	073-50-3.4	Tx1	TA-2350-DAB	0	0	1668	285
New York	NYC	146D	040-42-57.5	073-46-21.7	Tx1	TA-2350-DAB	0	0	1264	94
New York	NYC	148B	40-44-16.3	73-46-58	Tx1	TA-2350-DAB	0	0	1416	277
New York	NYC	161A	040-49-35	074-13-39	Tx1	TA-2350-T6	0	0	678	111
New York	NYC	168A	040-37-34.1	074-01-38	Tx1	TA-2350-DAB	0	0	1660	94

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## Repeaters Operating At or Less Than 2 kw EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
New York	NYC	169A	40-38-13.38	073-58-20	Tx1	TA-2350-DAB	0	0	1630	220
New York	NYC	170C	040-34-50	073-57-24	Tx1	TA-2350-DAB	0	0	1416	88
New York	NYC	171A	040-37-23.3	073-56-12	Tx1	TA-2350-DAB	0	0	1630	77
New York	NYC	172A	040-40-25	073-55-34	Tx1	TA-2350-DAB	0	0	1330	113
New York	NYC	174A	040-41-31	073-51-5.9	Tx1	TA-2350-DAB	0	0	1216	93
New York	NYC	181A	040-46-44.8	073-46-52	Tx1	TA-2350-DAB	0	0	1264	243
New York	NYC	187B	40-53-29	74-00-16	Tx1	TA-2350-DAB	0	0	700	73
New York	NYC	190A	40-56-6.2	73-59-44.7	Tx1	TA-2350-DAB	0	0	1044	108
New York	NYC	191C	040-39-53.6	074-06-33.6	Tx1	TA-2335-DAB-H	225	0	158	75
New York	NYC	191C	040-39-53.6	074-06-33.6	Tx2	TA-2335-DAB-H	315	0	158	75
New York	NYC	192C	040-37-36.1	074-04-28.2	Tx1	TA-2335-DAB-H	225	0	1002	130
New York	NYC	192C	040-37-36.1	074-04-28.2	Tx2	TA-2335-DAB-H	315	0	1002	130
New York	NYC	193B	040-37-49	074-18-10	Tx1	TA-2350-T6	0	0	1262	85
New York	NYC	195B	040-43-49	074-13-10	Tx1	TA-2350-DAB	0	0	1500	123
New York	NYC	196A	040-34-46.4	074-06-27.9	Tx1	TA-2350-DAB	0	0	1500	99

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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
New York	NYC	200A	040-57-06.8	073-49-05.3	Tx1	TA-2350-DAB	0	0	1524	81
New York	NYC	202D	040-54-43.1	073-49-01.6	Tx1	TA-2350-DAB	0	0	720	83
New York	NYC	205A	040-52-45	073-53-12	Tx1	TA-2350-T6	0	0	720	500
New York	NYC	206B	040-55-31	073-50-12.5	Tx1	TA-2350-DAB	0	0	632	80
New York	NYC	208A	040-54-59.6	074-11-34.9	Tx1	TA-2350-DAB	0	0	1262	75
New York	NYC	209A	040-53-57	074-10-13	Tx1	TA-2350-DAB	0	0	1074	150
New York	NYC	210A	040-52-04	074-00-04	Tx1	TA-2350-DAB	0	0	1262	180
New York	NYC	212A	040-39-40	074-22-44.6	Tx1	TA-2350-T6	0	0	1262	101
New York	NYC	214B	040-38-17.8	074-10-17	Tx1	TA-2335-DAB-H	135	0	1888	163
New York	NYC	218B	040-49-34	073-53-22	Tx1	TA-2350-DAB	0	0	1262	95
New York	NYC	219C	040-54-39	073-52-52	Tx1	TA-2304-2-DAB(90)	300		1262	163
New York	NYC	221D	040-41-10.6	074-00-5.3	Tx1	TA-2304-2-DAB(90)	120	5	1416	94
New York	NYC	222C	040-46-0.3	073-54-21	Tx1	TA-2350-T6	0	0	1264	80
New York	NYC	223B	040-45-31	073-52-45.8	Tx1	TA-2350-T6	0	0	1668	61
New York	NYC	225B	040-42-04.2	073-53-47.3	Tx1	TA-2350-DAB	0	0	1388	72

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downhill	EIRP Total	AGL
New York	NYC	227A	040-43-18.8	073-48-20	Tx1	TA-2350-DAB	0	0	1660	96
New York	NYC	228C	040-43-16	073-43-53.3	Tx1	TA-2350-DAB	0	0	1452	80
New York	NYC	259A	040-58-51.9	073-44-36.5	Tx1	TA-2350-DAB	0	0	1386	78
New York	NYC	261B	040-47-22	073-58-32	Tx1	TA-2304-2-DAB(90)	0	0	796	243
New York	NYC	261B	040-47-22	073-58-32	Tx2	TA-2304-2-DAB(120)	90	0	632	243
New York	NYC	261B	040-47-22	073-58-32	Tx3	TA-2304-2-DAB(120)	210	0	632	243
New York	NYC	614B	040-13-2.3	078-45-1.0	Tx1	TA-2350-T6	0	0	1262	175
New York	NYC	683A	040-47-38.1	074-11-53.7	Tx1	TA-2350-DAB	0	0	1094	127
New York	NYC	762A	040-45-48.8	073-57-33.6	Tx1	TA-2350-T6	0	0	1262	283

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Norfolk	NOR	002A	036-50-46	076-17-18	Tx1	TA-2350-DAB	0	0	1416	254

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Oklahoma City	OKC	005A	035-28-06.0	097-30-51.0	Tx1	TA-2350-DAB	0	0	970	519

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Power (W)	EIRP Total	ACQ
Orlando	ORL	004C	028-32-37.0	081-22-44.0	Tx1	TA-2350-DAB	0	0	1340	324

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Repeaters Operating At or Less Than 2 kw EIRP

City	City Abbv	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP(dBm)	AGL
Philadelphia	PHI	001D	039-57-05	075-09-38	Tx1	TA-2350-16	0	0	1022	550
Philadelphia	PHI	003A	039-54-35	075-04-56	Tx1	TA-2304-DAB(160)	135	0	1704	130
Philadelphia	PHI	004C	040-03-33	075-14-21	Tx1	TA-2304-DAB(90)	280	0	1382	265
Philadelphia	PHI	006A	039-57-36	075-14-54	Tx1	TA-2350-DAB	0	0	1454	132
Philadelphia	PHI	007B	039-54-41	075-17-22	Tx1	TA-2304-DAB(120)	225	0	1422	200
Philadelphia	PHI	009B	039-58-06	075-03-09	Tx1	TA-2304-DAB(120)	60	0	1790	110
Philadelphia	PHI	010A	039-55-01	075-21-19.7	Tx1	TA-2304-DAB(120)	235	0	1414	180
Philadelphia	PHI	011A	040-00-21	075-12-48	Tx1	TA-2350-DAB	0	0	1404	267
Philadelphia	PHI	012C	039-57-41	075-17-10	Tx1	TA-2304-DAB(120)	240	0	1386	200
Philadelphia	PHI	014A	039-50-10	075-25-27	Tx1	TA-2304-DAB(160)	235	0	1288	350
Philadelphia	PHI	015C	039-53-44	075-24-15	Tx1	TA-2304-DAB(120)	250	0	1458	181
Philadelphia	PHI	016C	040-00-57	075-06-38	Tx1	TA-2304-DAB(120)	30	0	1206	225
Philadelphia	PHI	017A	040-02-16	075-01-05	Tx1	TA-2304-DAB(90)	45	0	1472	250
Philadelphia	PHI	026C	040-02-43	075-23-28	Tx1	TA-2304-DAB(120)	270	0	1554	215
Philadelphia	PHI	041B	039-56-56	075-07-01	Tx1	TA-2304-DAB(120)	135	0	2000	240



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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Philadelphia	PHI	043A	039-53-15	075-00-03	Tx1	TA-2304-DAB(160)	135	0	950	198
Philadelphia	PHI	045A	039-49-33	075-09-12	Tx1	TA-2304-DAB(120)	165	0	1654	120
Philadelphia	PHI	047A	040-00-35	074-55-53	Tx1	TA-2304-DAB(120)	90	0	1962	210
Philadelphia	PHI	049A	040-05-01	074-55-13	Tx1	TA-2304-DAB(120)	45	6	604	400
Philadelphia	PHI	053A	040-07-05.8	075-08-01.0	Tx1	TA-2304-DAB(120)	0	0	1506	140
Philadelphia	PHI	054A	039-58-30	075-20-10	Tx1	TA-2304-DAB(160)	270	0	1148	156
Philadelphia	PHI	059B	039-41-56	075-42-17	Tx1	TA-2304-DAB(160)	225	0	1166	150
Philadelphia	PHI	061A	039-47-25	075-32-50	Tx1	TA-2335-DAB-H	220	0	1500	210
Philadelphia	PHI	061A	039-47-25	075-32-50	Tx2	TA-2335-DAB-H	340	0	1500	210
Philadelphia	PHI	064B	039-49-38	075-00-04	Tx1	TA-2304-DAB(120)	135	0	1654	130
Philadelphia	PHI	065A	039-51-22	075-04-04	Tx1	TA-2304-DAB(120)	135	0	1506	160

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
Pittsburgh	PIT	002A	040-24-20	079-58-42	Tx1	TA-2350-T6	0	0	1258	108
Pittsburgh	PIT	004D	040-26-46.2	079-57-51.4	Tx1	TA-2350-T6	0	0	437	216
Pittsburgh	PIT	006A	040-24-54	080-02-20	Tx1	TA-2335-DAB-H	180	4	1324	430
Pittsburgh	PIT	006A	040-24-54	080-02-20	Tx2	TA-2335-DAB-H	290	2	1324	430
Pittsburgh	PIT	010A	040-26-23	080-02-39	Tx1	TA-2350-T6	0	0	872	380
Pittsburgh	PIT	011C	040-13-16	079-57-08	Tx1	TA-2335-DAB-H	145	2	1800	265
Pittsburgh	PIT	011C	040-13-16	079-57-08	Tx2	TA-2335-DAB-H	270	5	1800	265
Pittsburgh	PIT	014A	040-30-12.6	079-51-58.1	Tx1	TA-2335-DAB-H	30	0	1527	130
Pittsburgh	PIT	014A	040-30-12.6	079-51-58.1	Tx2	TA-2335-DAB-H	150	0	1527	130
Pittsburgh	PIT	015E	040-35-24	080-00-35	Tx2	TA-2335-DAB-H	180	6	1142	380
Pittsburgh	PIT	016A	040-24-43	079-55-53	Tx1	TA-2335-DAB-H	70	4	1516	435
Pittsburgh	PIT	016A	040-24-43	079-55-53	Tx2	TA-2335-DAB-H	180	4	1516	435
Pittsburgh	PIT	019C	040-31-20	080-01-32	Tx1	TA-2350-T6	0	0	978	40
Pittsburgh	PIT	020A	040-29-48	080-07-09	Tx1	TA-2335-DAB-H	0	2	1672	250
Pittsburgh	PIT	020A	040-29-48	080-07-09	Tx2	TA-2335-DAB-H	240	0	1672	250

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## Repeaters Operating At or Less Than 2 kw EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Pittsburgh	PIT	021D	040-26-11	080-03-58.4	Tx1	TA-2350-T6	0	0	1640	128
Pittsburgh	PIT	028A	040-28-43.0	079-49-26.0	Tx1	TA-2335-DAB-H	60	5	1621	350
Pittsburgh	PIT	028A	040-28-43.0	079-49-26.0	Tx2	TA-2335-DAB-H	170	7	1621	350
Pittsburgh	PIT	039A	040-32-47.5	080-09-32.4	Tx1	TA-2335-DAB-H	0	3	1485	250
Pittsburgh	PIT	039A	040-32-47.5	080-09-32.4	Tx2	TA-2335-DAB-H	240	3	1485	250
Pittsburgh	PIT	042B	040-23-12	079-49-7	Tx1	TA-2335-DAB-H	120	6	1991	105
Pittsburgh	PIT	042B	040-23-12	079-49-7	Tx2	TA-2335-DAB-H	10	9	1991	105
Pittsburgh	PIT	046A	040-24-36.6	080-05-52.0	Tx1	TA-2335-DAB-H	180	6	907	280
Pittsburgh	PIT	046A	040-24-36.6	080-05-52.0	Tx2	TA-2335-DAB-H	300	2	907	280
Pittsburgh	PIT	054A	040-26-47.70	079-45-27.00	Tx1	TA-2335-DAB-H	40	3	1349	400
Pittsburgh	PIT	054A	040-26-47.70	079-45-27.00	Tx2	TA-2335-DAB-H	150	2	1349	400
Pittsburgh	PIT	055B	040-23-30	079-46-51.	Tx1	TA-2335-DAB-H	60	9	1150	650
Pittsburgh	PIT	055B	040-23-30	079-46-51.	Tx2	TA-2335-DAB-H	160	5	1150	650

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	GL
Portland	POR	008C	045-30-59	122-40-45	Tx1	TA-2350-DAB	0	0	980	398
Portland	POR	026B	045-17-37	122-59-13	Tx1	TA-2350-T6	0	0	1074	130
Portland	POR	028A	045-31-24	123-05-58	Tx1	TA-2350-T6	0	0	1206	110

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	ACI
Raleigh	RAL	001A	035-50-45	078-38-36	Tx1	TA-2304-DAB(120)	120	0	1991	150
Raleigh	RAL	004A	036-00-54	078-51-28	Tx1	TA-2350-DAB-T6	0	0	1232	315
Raleigh	RAL	010A	035-59-53	078-54-08	Tx1	TA-2350-T6	0	0	1256	273
Raleigh	RAL	012A	036-03-34	078-57-13	Tx1	TA-2350-T6	0	0	1180	360
Raleigh	RAL	015A	036-02-04.8	078-54-43.9	Tx1	TA-2350-DAB	0	0	1089	130
Raleigh	RAL	019B	036-01-42	078-57-37	Tx1	TA-2350-DAB	0	0	1074	130
Raleigh	RAL	021B	035-55-04	079-05-57	Tx1	TA-2304-DAB(120)	120	0	1476	147

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## Repeaters Operating At or Less Than 2 kw EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	W/GI
Sacramento	SAC	002A	038-33-59	121-28-51	Tx1	TA-2350-DAB	0	0	1680	163

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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Power	EIRP (dB)	AGL (ft)
San Antonio	SAN	002A	029-25-44	098-29-33	Tx1	TA-2350-DAB	0	0	1192	480
San Antonio	SAN	004A	029-20-19.2	098-35-20.5	Tx1	TA-2304-2-DAB(160)	225	0	1956	165

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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtilt	EIRP Total	AGL
San Francisco	SFX	009C	037-30-43	122-17-51	Tx1	TA-2350-T6	0	0	1144	35
San Francisco	SFX	043A	037-59-30	121-17-17	Tx1	TA-2350-T6	0	0	996	345
San Francisco	SFX	073A	037-38-02.5	120-59-53.9	Tx1	TA-2350-DAB	0	0	822	188
San Francisco	SFX	159B	037-41-32.4	122-05-13.4	Tx1	TA-2304-DAB(90)	90	0	1298	30
San Francisco	SFX	253A	037-50-23.1	122-00-47.8	Tx1	TA-2304-2-DAB(90)	135	4	1426	23



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Repeaters Operating At or Less Than 2 kw EIRP

City	Call/Vol	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Height	EIRP Total	AGL
Seattle	SEA	001B	047-58-09	122-12-48	Tx2	TA-2304-2-DAB(45)	190	6	946	170
Seattle	SEA	036B	047-00-53	122-55-07.7	Tx1	TA-2304-2-DAB(120)	10	0	760	110
Seattle	SEA	036B	047-00-53	122-55-07.7	Tx2	TA-2304-2-DAB(120)	130	0	760	110
Seattle	SEA	037C	047-30-27	122-04-57	Tx1	TA-2350-DAB	0	0	1212	95

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Booth	EIRP (mW)	ACI
St. Louis	STL	001A	038-25-45.0	090-37-27.4	Tx1	TA-2350-T4	0	0	1235	100
St. Louis	STL	020A	038-41-16	090-23-03	Tx1	TA-2304-2-DAB(120)	280	0	1758	240

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Polariz	EIRP Total	AGL
Tampa	TAM	011A	27-56-53	82-27-34	Tx1	TA-2350-DAB	0	0	1056	618
Tampa	TAM	016A	028-19-12.4	082-41-51.9	Tx1	TA-2350-T6	0	0	1296	185

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abb	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Deviation	EIRP (dBi)	AGL
Toledo	TOL	001A	041-39-13	083-31-49	Tx1	TA-2350-DAB	0	0	1330	420
Toledo	TOL	003C	041-36-58	083-36-44	Tx1	TA-2350-DAB	0	0	1178	180
Toledo	TOL	505A	041-39-59	083-33-28	Tx1	TA-2350-DAB	0	0	1112	178

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Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downlink	EIRP Total	AGL
Washington, DC	WDC	101A	038-54-19	077-03-19	Tx1	TA-2350-DAB	0	0	1100	175
Washington, DC	WDC	102E	038-52-53	077-00-59	Tx1	TA-2350-DAB	0	0	1416	104
Washington, DC	WDC	103D	038-54-25.7	077-00-24.3	Tx1	TA-2350-DAB	0	0	1234	96
Washington, DC	WDC	106F	038-55-55	077-02-11	Tx1	TA-2350-DAB	0	0	1448	125
Washington, DC	WDC	201A	038-53-26.7	077-04-55.5	Tx1	TA-2350-DAB	0	0	1292	164
Washington, DC	WDC	202A	038-51-15	077-02-56	Tx1	TA-2350-DAB	0	0	1292	197
Washington, DC	WDC	203B	038-52-59.9	077-07-05.4	Tx1	TA-2335-DAB-H	0	6	1588	220
Washington, DC	WDC	203B	038-52-59.9	077-07-05.4	Tx2	TA-2335-DAB-H	120	6	1286	205
Washington, DC	WDC	203B	038-52-59.9	077-07-05.4	Tx3	TA-2335-DAB-H	240	6	882	220
Washington, DC	WDC	204A	038-55-12	077-13-43	Tx1	TA-2350-T6	0	0	1588	242
Washington, DC	WDC	207C	038-57-32.5	077-25-29.2	Tx1	TA-2350-T6	0	0	1002	169
Washington, DC	WDC	216C	038-45-12	077-27-42	Tx1	TA-2304-2-DAB(160)	240	0	1866	138
Washington, DC	WDC	218B	038-40-58	077-14-11	Tx1	TA-2335-DAB-H	0	0	256	175
Washington, DC	WDC	218B	038-40-58	077-14-11	Tx2	TA-2335-DAB-H	120	0	1146	175
Washington, DC	WDC	218B	038-40-58	077-14-11	Tx3	TA-2335-DAB-H	240	0	1146	175

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbrev	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Power (W)	EIRP (W)	AGL (ft)
Washington, DC	WDC	221A	038-52-00	077-21-55	Tx1	TA-2335-DAB-H	0	0	1664	140
Washington, DC	WDC	221A	038-52-00	077-21-55	Tx2	TA-2335-DAB-H	250	0	1664	140
Washington, DC	WDC	223A	038-56-59	077-21-27	Tx1	TA-2350-T6	0	0	1050	195
Washington, DC	WDC	227E	038-44-47	077-05-59	Tx2	TA-2335-DAB-H	290	3	334	352
Washington, DC	WDC	230A	038-52-28.0	077-13-24.0	Tx1	TA-2304-2-DAB(90)	0	6	694	603
Washington, DC	WDC	230A	038-52-28.0	077-13-24.0	Tx2	TA-2304-2-DAB(90)	120	8	694	603
Washington, DC	WDC	230A	038-52-28.0	077-13-24.0	Tx3	TA-2304-2-DAB(90)	240	2	694	603
Washington, DC	WDC	231C	038-50-40.0	077-07-02.0	Tx1	TA-2350-T6	0	0	1100	313
Washington, DC	WDC	237A	038-56-12	077-15-53	Tx1	TA-2304-DAB(90)	0	6	796	115
Washington, DC	WDC	237A	038-56-12	077-15-53	Tx2	TA-2304-DAB(90)	120	0	796	115
Washington, DC	WDC	237A	038-56-12	077-15-53	Tx3	TA-2304-DAB(90)	240	0	576	115
Washington, DC	WDC	301A	039-02-28.3	076-59-39.5	Tx1	TA-2350-DAB	0	0	1074	245
Washington, DC	WDC	308C	039-09-43.0	077-13-35.0	Tx1	TA-2304-DAB(120)	335	0	1416	139
Washington, DC	WDC	312D	038-58-56.8	077-05-36.3	Tx1	TA-2350-DAB	0	0	1206	192
Washington, DC	WDC	313B	038-48-14	076-58-50	Tx2	TA-2304-2-DAB(120)	170	0	1866	169

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Repeaters Operating At or Less Than 2 kW EIRP

City	City Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtail	EIRP Total	AGL
Washington, DC	WDC	314B	038-55-46.25	076-55-25.80	Tx1	TA-2350-DAB	0	0	980	175
Washington, DC	WDC	316A	038-51-38.0	076-56-59.0	Tx1	TA-2304-2-DAB(120)	160	0	1954	224
Washington, DC	WDC	319A	038-53-19	076-54-19	Tx1	TA-2350-T6	0	0	1416	106
Washington, DC	WDC	322D	039-00-17.3	076-58-33.1	Tx1	TA-2350-T6	0	0	1552	272
Washington, DC	WDC	325A	038-57-17.0	077-00-17	Tx1	TA-2335-DAB-H	0	0	1150	297
Washington, DC	WDC	325A	038-57-17.0	077-00-17	Tx2	TA-2335-DAB-H	120	6	1150	297
Washington, DC	WDC	325A	038-57-17.0	077-00-17	Tx3	TA-2335-DAB-H	240	0	1150	297
Washington, DC	WDC	327A	039-01-39	077-08-26	Tx1	TA-2350-T6	0	0	1262	187
Washington, DC	WDC	329A	039-09-22.2	076-51-27.3	Tx1	TA-2350-T6	0	0	1588	105
Washington, DC	WDC	331C	039-08-25	076-44-56	Tx1	TA-2335-DAB-H	270	0	1782	168
Washington, DC	WDC	337B	039-02-28	077-03-20	Tx1	TA-2350-T6	0	0	1150	329
Washington, DC	WDC	401B	039-17-24.6	076-36-50.0	Tx1	TA-2350-DAB	0	0	894	420
Washington, DC	WDC	402D	039-19-52	076-39-29	Tx1	TA-2335-DAB-H	0	0	1150	320
Washington, DC	WDC	402D	039-19-52	076-39-29	Tx2	TA-2335-DAB-H	120	4	390	110
Washington, DC	WDC	402D	039-19-52	076-39-29	Tx3	TA-2335-DAB-H	240	0	1150	320

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## Repeaters Operating At or Less Than 2 kW EIRP

City	City/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Downtime	EIRP Total	AGL
Washington, DC	WDC	405A	039-23-06.0	076-35-59.0	Tx1	TA-2304-2-DAB(160)	0	0	1074	280
Washington, DC	WDC	434A	039-10-42.0	076-52-32.0	Tx1	TA-2350-T6	0	0	1002	163
Washington, DC	WDC	500B	038-48-52.6	077-03-10.9	Tx1	TA-2335-DAB-H	135	0	1518	167
Washington, DC	WDC	500B	038-48-52.6	077-03-10.9	Tx2	TA-2335-DAB-H	235	0	1518	167
Washington, DC	WDC	502A	038-59-29	076-52-52	Tx1	TA-2350-T6	0	0	1234	221
Washington, DC	WDC	503A	039-01-22	076-55-13	Tx1	TA-2350-T6	0	0	1518	222
Washington, DC	WDC	504B	039-01-24.0	077-06-17.7	Tx1	TA-2350-T6	0	0	1384	292
Washington, DC	WDC	507C	038-53-8.0	076-59-53.0	Tx1	TA-2350-DAB	0	0	1150	84
Washington, DC	WDC	509A	039-24-30	076-39-57	Tx2	TA-2304-DAB(45)	60	0	980	125
Washington, DC	WDC	510B	038-57-32.8	076-52-10.0	Tx1	TA-2350-T6	0	0	1234	135
Washington, DC	WDC	515A	039-16-20.2	076-47-37.4	Tx1	TA-2350-T6	0	0	1416	112
Washington, DC	WDC	517A	038-56-16	077-10-42	Tx1	TA-2350-T6	0	0	1552	144
Washington, DC	WDC	519A	038-53-45.0	077-08-05.9	Tx1	TA-2335-DAB-H	0	6	1482	290
Washington, DC	WDC	519A	038-53-45.0	077-08-05.9	Tx2	TA-2335-DAB-H	120	6	1482	290
Washington, DC	WDC	519A	038-53-45.0	077-08-05.9	Tx3	TA-2335-DAB-H	240	6	1482	290



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Repeaters Operating At or Less Than 2 kW EIRP

City	Ch/Abbr	Site	Site Latitude	Site Longitude	Antenna	Antenna Type	Orientation	Power W	EIRP dBm	ACI
Washington, DC	WDC	824A	038-59-59.0	077-03-26.0	Tx1	TA-2335-DAB-H	70	6	1074	400
Washington, DC	WDC	824A	038-59-59.0	077-03-26.0	Tx2	TA-2335-DAB-H	190	6	1074	400
Washington, DC	WDC	824A	038-59-59.0	077-03-26.0	Tx3	TA-2335-DAB-H	310	6	1074	400

Antenna Specification Sheets

Exhibit B



# TA-2304-2-DAB Adjustable Sector

2330 - 2345 MHz

The TA-2304-2-DAB is a medium power vertically polarized Sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120 or 160 degrees by use of side panels. The antenna elements are at DC ground to aid in lightning protection.

## Electrical Specifications

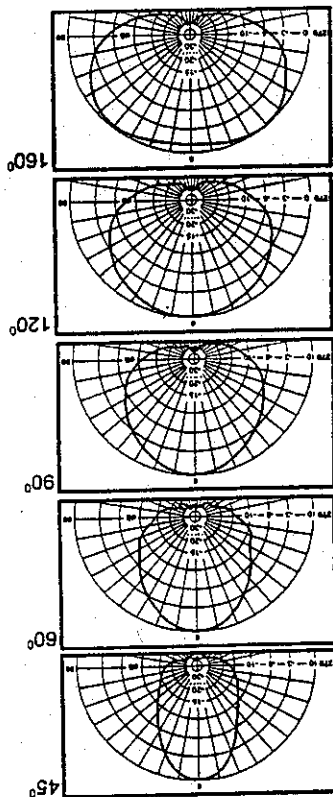
Frequency Range: 2330-2345 MHz  
Gain: (dBi) 18 @ 45° 17 @ 60° 15 @ 90°  
14 @ 120° 13 @ 160°  
VSWR: 1.3:1 max.  
Front/Back Ratio: 15 dB @ 180° ± 35°  
Polarization: Linear Vertical  
Power Rating: 200 Watts average, 800 Watts peak  
H-Plane Beamwidth (-3 dBd):  
Field Adjustable 45, 60, 90, 120, 160 degrees  
E-Plane Beamwidth (-3 dBd): 7.5 degrees  
Cross Pol. Discrimination: 15 dB  
Impedance: 50 ohms nominal  
Termination: 7/16 DIN female  
Typical Mid band values. (For details, contact factory)

## Materials

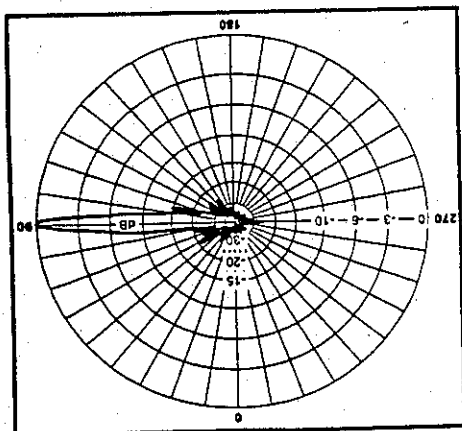
Radiating Elements: Tin plated copper on PCB  
Reflector: Irridiated aluminum  
Radome: Gray UV stabilized ASA  
Clamps: HDG steel

## Mechanical Specifications

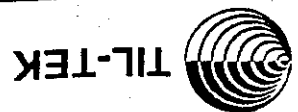
Length: 40 in. (1016 mm)  
Width: 6.5 in. (165 mm)  
Depth: 3.5 in. (89 mm)  
Weight (incl. Clamps): 10 lb. (4.5 kg)  
Rated Wind Velocity: 125 mph (200 km/h)  
Hor. Thrust at rated wind: 150 lb. (68 kg)  
Mounting Pipe: 0.75 - 3.0 in. (19 - 76 mm)



H-Plane



E-Plane



# TA-2304-DAB Adjustable Sector 2330 - 2345 MHz

The TA-2304-DAB is a medium power vertically polarized Sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is designed to provide field adjustable azimuth beamwidths of 45, 60, 90, 120 or 160 degrees by use of side panels. The antenna elements are at DC ground to aid in lightning protection.

## Electrical Specifications

Frequency Range: 2330-2345 MHz  
Gain: (dBi) 18.5 @ 45° 14 @ 60° 13 @ 90°  
12 @ 120° 10.5 @ 160°  
VSWR: 1.4:1 max.  
Front/Back Ratio: 20 dB @ 180° ± 35°

Polarization: Linear Vertical  
Power Rating: 200 Watts average, 800 Watts peak  
H-Plane Beamwidth (-3 dBd):  
Field Adjustable 45, 60, 90, 120, 160 degrees

E-Plane Beamwidth (-3 dBd): 15 degrees  
Cross Pol. Discrimination: 15 dB  
Impedance: 50 ohms nominal  
Termination: 7/16 DIN female

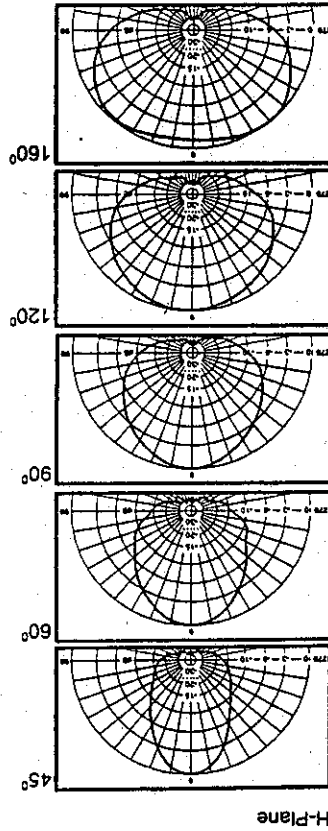
Typical mild band values. (For details, contact factory)

## Mechanical Specifications

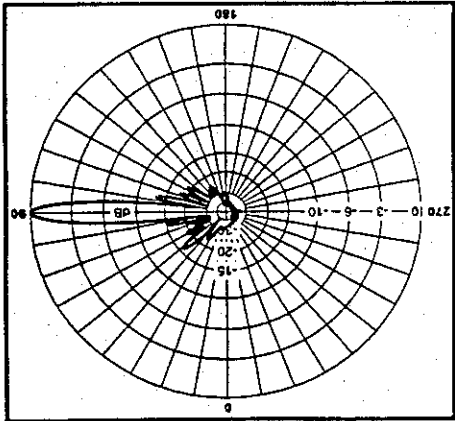
Length: 21 in. (533 mm)  
Width: 6.5 in. (165 mm)  
Depth: 3.5 in. (89 mm)  
Weight (incl. Clamps): 6 lb. (2.7 kg)  
Rated Wind Velocity: 125 mph (200 km/h)  
Hor. Thrust at rated wind: 79 lb. (35.8 kg)  
Mounting Pipe: 0.75 - 3.0 in. (19 - 76 mm)

## Materials

Radiating Elements: Tin plated copper on PCB  
Reflector: Inridited aluminum  
Radome: Gray UV stabilized ASA  
Clamps: HDG steel



H-Plane



E-Plane

TIL-TEK



# TA-2324-LHCP Circular Polarized Solid Parabolic 2330 - 2345 MHz

The TA-2324-LHCP is a left hand circular polarized solid parabolic intended specifically as a receive antenna for satellite signals. The antenna elements are at DC ground to aid in lightning protection.



## Electrical Specifications

Frequency Range: 2330-2345 MHz  
Gain: (dBi) 21  
VSWR: 1.3:1 max.  
Polarization: Left Hand Circular  
Power Rating: 200 Watts  
Elevation (-3 dB): 13.5 degrees  
Front to Back Ratio: 25 dB @  $180^\circ \pm 35^\circ$   
Axial Ratio: 2.5 dB  
Impedance: 50 ohms nominal  
Termination: 7/16 DIN female (Extended Barrel)

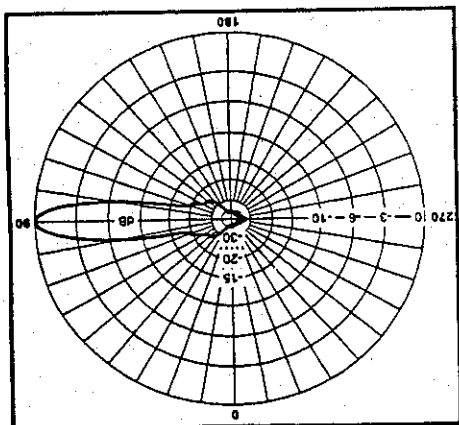
Typical mid band values. (For details, contact factory)

## Materials

Radiating Elements: Tin plated copper on PCB  
Reflector: Painted Aluminum  
Clamps: HDG steel

## Mechanical Specifications

Diameter: 26 in. (660 mm)  
Weight (incl. Clamps): 28 lb. (12.7 kg)  
Rated Wind Velocity: 125 mph (200 km/h)  
Hor. Thrust at rated wind: 127 lb. (57.6 kg)  
Mechanical Tilt: Field adjustable  
from  $+25^\circ$  to  $+60^\circ$  using clamps supplied  
Mounting Pipe: 1.75 - 4.0 in. (44.5 - 102 mm)



Elevation



# **TA-2335-DAB-H** **High Power Sector** **2330 - 2345 MHz**

The TA-2335-DAB-H is a high power vertically polarized Sectoral antenna specifically designed for Digital Audio Broadcast transmission. The antenna is also designed to provide a shaped azimuth beamwidth of 95 degrees by use of shaped reflector phasing enabling multi-sector applications. The antenna elements are at DC ground to aid in lightning protection.

## **Mechanical Specifications**

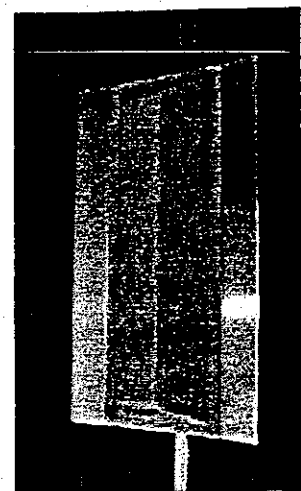
Length: 38 in. (965 mm)  
 Width: 21 in. (533 mm)  
 Depth: 8 in. (203 mm)  
 Weight (incl. Clamps): 33 lb. (15 kg)  
 Rated Wind Velocity: 125 mph (200 km/h)  
 Hor. Thrust at rated wind: 344 lb. (156 kg)  
 Mechanical Tilt: 5° up, 10° down  
 Mounting Pipe: 0.75 - 3.0 in. (19 - 76 mm)

## **Materials**

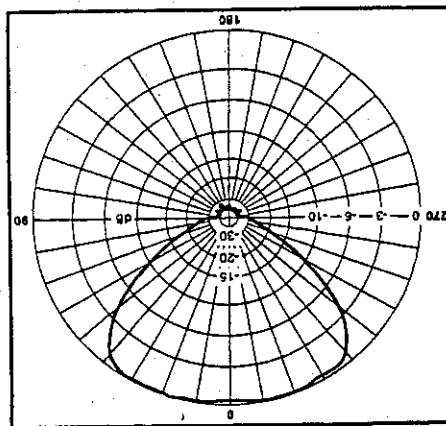
Radiating Elements: Gold-plated copper on PCB  
 Reflector: Indited aluminum  
 Radome: Gray UV stabilized ASA  
 Clamps: HDG steel

## **Electrical Specifications**

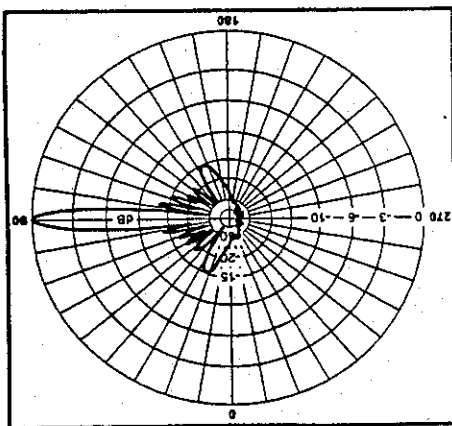
Frequency Range: 2330-2345 MHz  
 Gain: (dBi) 15  
 VSWR: 1.4:1 min.  
 Front/Back Ratio: 20 dB  
 Polarization: Linear Vertical  
 Power Rating: 1000 Watts avg. 4000 peak  
 H-Plane Beamwidth: 95° @ -3dB, 120° @ -10dB  
 E-Plane Beamwidth: 7°  
 Cross Pol. Discrimination: 20 dB  
 Impedance: 50 ohms nominal  
 Termination: 7/16 DIN Female (extended barrel)  
 Typical Mid band values. (For details, contact factory)



H-Plane

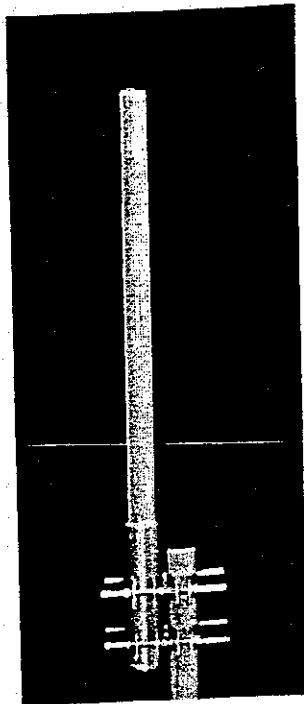


E-Plane





## TA-2350-DAB Omnidirectional 2330 - 2345 MHz



The TA-2350-DAB is a medium power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

### Electrical Specifications

Frequency Range: 2330-2345 MHz  
Gain: (dBi) 10  
VSWR: 1.4:1 max.  
Polarization: Linear Vertical  
Power Rating: 200 Watts average, 800 Watts peak  
H-Plane Beamwidth: 360 degrees  
E-Plane Beamwidth: 8 degrees  
Electrical Downtilt: 2 degrees  
Cross Pol. Discrimination: 20 dB min.  
Null Fill: -20 dB (1° Null)  
Impedance: 50 ohms nominal  
Termination: 7/16 DIN female

Typical Mid band values. (For details, contact factory)

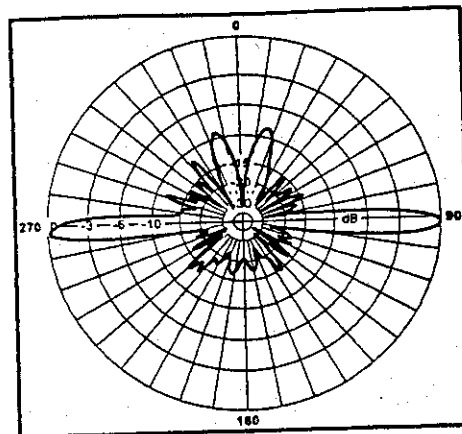
### Mechanical Specifications

Length: 70 in. (1778 mm)  
Diameter: 2.25 in. (57 mm)  
Weight (Incl. Clamps): 15 lb. (6.8 kg)  
Rated Wind Velocity: 125 mph (200 km/h)  
Hor. Thrust at rated wind: 31 lb. (14 kg)  
Mounting Pipe: 1.75 - 4.0 in. (44.5 - 102 mm)

### Materials

Radiating Elements: Nickel plated copper array  
Radome: Gray UV stabilized fiberglass  
Base: Iridited Aluminum  
Clamps: HDG steel

E-Plane



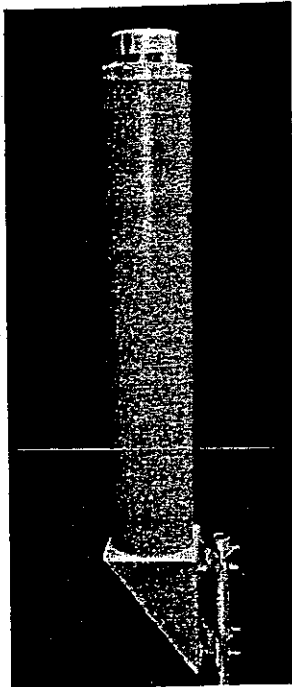


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## **TA-2350-DAB-H**

### **High Power Omnidirectional**

### **2330 - 2345 MHz**



The TA-2350-DAB-H is a high power vertically polarized omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt and null fill. The antenna elements are at DC ground to aid in lightning protection.

#### **Electrical Specifications**

**Frequency Range:** 2330-2345 MHz  
**Gain: (dBi)** 10  
**VSWR:** 1.3:1 min.  
**Polarization:** Linear Vertical  
**Power Rating:** 2000 Watts avg. 8000 peak  
**H-Plane Beamwidth:** 360 degrees  
**E-Plane Beamwidth:** 8 degrees  
**Cross Pol. Discrimination:** 15 dB  
**Electrical Downtilt:** 2 degrees  
**Null Fill:** -20 dB (1° Null)  
**Impedance:** 50 ohms nominal  
**Termination:** 7/8" EIA Flange

Typical Mid band values. (For details, contact factory)

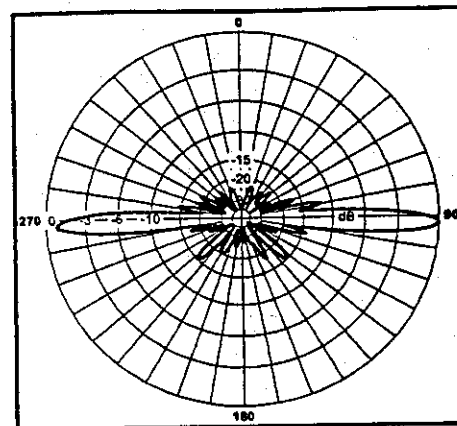
#### **Mechanical Specifications**

**Length:** 64 in. (1625 mm)  
**Diameter:** 8 in. (203 mm)  
**Weight (Incl. Clamps):** 49 lb. (22.3 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 148 lb. (67 kg)  
**Mounting Pipe:** 1.75 - 4.0 in. (44.5 - 102 mm)

#### **Materials**

**Radiating Elements:** Tin-plated copper on PCB  
**Reflector:** Irridited aluminum  
**Radome:** Gray Fiberglass  
**Clamps:** HDG steel

E-Plane





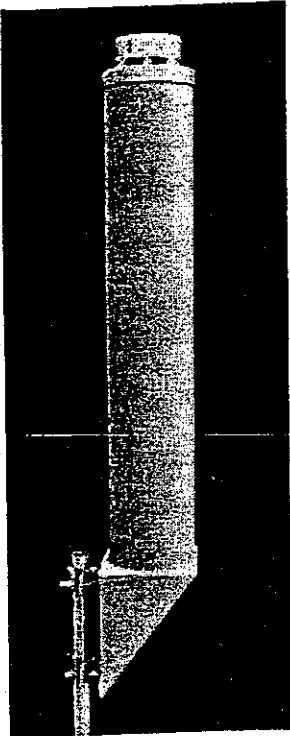


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## **TA-2355-LCC**

### **Shaped Gain Omnidirectional**

### **2330 - 2345 MHz**



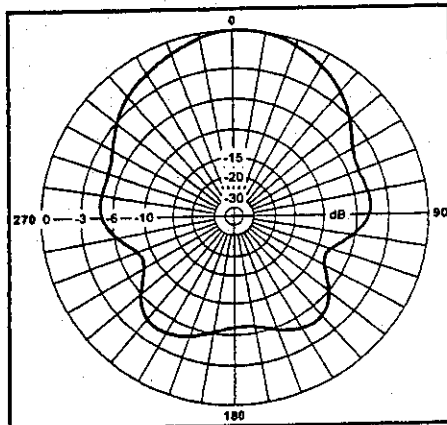
The TA-2355-LCC is a medium power vertically polarized shaped gain omnidirectional antenna specifically designed for Digital Audio Broadcast transmission. The antenna consists of a phased corporately fed broadband dipole array which is configured to provide electrical beam downtilt, null fill and proprietary LCC radiation pattern envelopes. The antenna elements are at DC ground to aid in lightning protection.

#### **Electrical Specifications**

**Frequency Range:** 2330-2345 MHz  
**Gain: (dBi)**  $13 \pm 1$  @  $0^\circ \pm 50^\circ$   
 $7 \pm 1$  @  $180^\circ \pm 120^\circ$   
**VSWR:** 1.4:1 min.  
**Polarization:** Linear Vertical  
**Power Rating:** 200 Watts avg., 800 Watts peak  
**H-Plane Beamwidth(-3 dB):**  $0^\circ \pm 50^\circ$   
**H-Plane Beamwidth(-6 dB arc):**  $180^\circ \pm 120^\circ$   
**E-Plane Beamwidth(-3dB):**  $8^\circ$   
**Cross Pol. Discrimination:** 20 dB  
**Electrical Downtilt:**  $2^\circ$   
**Null Fill:** -20 dB (1<sup>st</sup> Null)  
**Impedance:** 50 ohms nominal  
**Termination:** 7/16 DIN Female

Typical Mid band values. (For details, contact factory)

**H-Plane**



#### **Mechanical Specifications**

**Length:** 64 in. (1625 mm)  
**Diameter:** 8 in. (203 mm)  
**Weight (Incl. Clamps):** 49 lb. (22.3 kg)  
**Rated Wind Velocity:** 125 mph (200 km/h)  
**Hor. Thrust at rated wind:** 148 lb. (67 kg)  
**Mounting Pipe:** 1.75 - 4.0 in. (44.5 - 102 mm)

#### **Materials**

**Radiating Elements:** Tin-plated copper on PCB  
**Reflector:** Irridited aluminum  
**Radome:** Gray Fiberglass  
**Clamps:** HDG steel

**E-Plane**

